



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم

بسم الله الرحمن الرحيم



HANAA ALY



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شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

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Effect of Apelin on hepatic dysfunction in a rat model of heart failure

Thesis

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قالوا

سببنا انك لا تعلم لنا
إلا ما علمتنا إنك أنت
العليم العظيم

صدق الله العظيم

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List of abbreviations

Abb.	Full term
ACE	Angiotensin-converting enzyme
ACE2.....	Angiotensin-converting enzyme 2
ALT.....	Alanine transaminase
Ang I.....	Angiotensin I
Ang II.....	Angiotensin II
ARBs.....	Angiotensin receptor blockers
AST.....	Aspartate transaminase
AT1R.....	Angiotensin II type 1 receptor
AV node.....	Atrioventricular node
CHC.....	Chronic hepatitis C
cTnI.....	Cardiac troponin I
cTnT.....	Cardiac troponin T
Cx43.....	Protein connexin
BKCa.....	Large Conductance Calcium-Activated Potassium Channels
BNP	Brain natriuretic peptide
ECG.....	Electrocardiogram
eNOS.....	Endothelial nitric oxide synthase
FBW.....	Final body weight
FoxO1.....	Forkhead box O1
GPCRs.....	G protein-coupled receptors
HCC.....	Hepatocellular carcinoma
HF.....	Heart failure
HIF-1 α	Hypoxia inducible factor-1 α
HR.....	Heart rate
HRT	Half relaxation time
HSCs.....	Hepatic stellate cells
IBW.....	Initial body weight
ICU.....	Intensive care unit
$I_{K^{+1}}$	Inward rectifier potassium currents
I_{Na}	Inward sodium current
ISO.....	Isoprenaline
I/R.....	Ischemia reperfusion
KHB.....	Krebs-Henseleit Bicarbonate
L-Arg/NOS/NO.....	L-arginine/nitric oxide synthase/nitric oxide
LDH.....	Lactate dehydrogenase
L-NAME.....	N ^G -nitro-L-arginine methyl ester